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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: W.D. Grover et al.

Attorney Docket No.: LAMA121485

Application No.: 10/620,302

Group Art Unit: 2681

Filed: July 14, 2003

Title: PATH SEGMENT PROTECTING P-CYCLES

INFORMATION DISCLOSURE STATEMENT

Seattle, Washington 98101

September 2, 2004

TO THE COMMISSIONER FOR PATENTS:

Applicants are aware of the information listed in the attached form that may be material to the prosecution of the above-identified patent application.

1. X Copies of the listed foreign patents, publications, and other information are enclosed for the Examiner's use.
2. X Pursuant to 37 C.F.R. § 1.97(b), this Information Disclosure Statement is being filed within three months of the filing date of the national application (other than a CPA), within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, before the mailing date of a first Office Action on the merits, or before the mailing date of a first Office Action after the filing of an RCE.

Respectfully submitted,

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I hereby certify that this correspondence is being deposited with the U.S. Postal Service in a sealed envelope as first class mail with postage thereon fully prepaid and addressed to **Mail Stop Amendment**, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the below date.

Date: September 2, 2004

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**Information Cited by the Applicant(s) that may be Material  
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**United States Patent Documents**

<u>Examiner</u> <u>Initial</u>	<u>ID</u>	<u>Document</u> <u>Number</u>	<u>Date</u>	<u>Name</u>	<u>Class</u>	<u>Sub</u> <u>Class</u>
_____	A1	4,956,835	09/11/1990	Grover	370	228
_____	A2	5,146,452	09/08/1992	Pekarske	370	228
_____	A3	5,537,532	07/16/1996	Chng et al.	714	4
_____	A4	5,093,824	03/03/1992	Coan et al.	370	228
_____	A5	5,239,537	08/24/1993	Sakauchi	370	218
_____	A6	5,513,345	04/30/1996	Sato et al.	714	4
_____	A7	5,850,505	12/15/1998	Grover et al.	714	4
_____	A8	5,463,615	10/31/1995	Steinhorn	370	221
_____	A9	6,052,796	04/18/2000	Croslin	714	4
_____	A10	6,377,543	04/23/2002	Grover et al.	370	227
_____	A11	6,421,349	07/16/2002	Grover	370	408
_____	A12	6,404,734	06/11/2002	Stamatelakis et al.	370	227
_____	A13	6,331,905	12/18/2001	Ellinas et al.	398	2
_____	A14	2002/0071392	06/13/2002	Grover et al.	370	241
_____	A15	09/314,518	05/19/1999	Grover et al.	709	

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**Foreign Patent Documents**

Examiner Initial	ID	Document Number	Date	Country	Class	Sub Class	Trans- lation?
_____	B1	2,161,847 (Corresponds to A7 above)	10/31/1995	Canada			N/A
_____	B2	2,212,933 (Corresponds to A10 above)	08/13/1997	Canada			N/A
_____	B3	2,210,207 (Corresponds to A11 above)	01/11/1999	Canada			N/A
_____	B4	2,280,981 (Corresponds to A12 above)	04/06/2000	Canada			N/A
_____	B5	2,359,168 (Corresponds to A14 above)	10/16/2001	Canada			N/A
_____	B6	2,269,649 (Corresponds to A15 above)	04/22/1999	Canada			N/A
_____	B7	WO 97/06644	02/20/1997	PCT	H04Q	12/56	N/A
_____	B8	WO 07/06645	02/20/1997	PCT	H04Q	3/66	N/A

**Other Information**

(Include author, title, date of publication to extent known, relevant pages, and place of publication if known)

Examiner Initial	ID	Document Identification
_____	C1	M. Herzberg, S.J. Bye, "An optimal spare-capacity assignment model for survivable networks with hop limits", <i>IEEE Globecom 1994</i> , pp. 1601-1607
_____	C2	W.D. Grover, "Distributed restoration of the transport network", in <i>Network Management into the 21<sup>st</sup> Century</i> , editors T. Plevyak, S. Aidarous, <i>IEEE/IEE Press Co-publication</i> , Chapter 11, pp. 337-417, Feb. 1994.

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- \_\_\_\_\_ C3 R.R. Iraschko, M.H. MacGregor, W.D. Grover, "Optimal capacity placement for path restoration in mesh survivable networks", *ICC 1996*, Dallas, June 1996, pp. 1568-1574
  
  - \_\_\_\_\_ C4 W.D. Grover, M.H. MacGregor, "Potential for spare capacity preconnection to reduce crossconnection workloads in mesh-restorable networks", *Electronics Letters*, Fe. 3, 1994, Vol. 30, No. 3, pp 194-195
  
  - \_\_\_\_\_ C5 W.D. Grover, D. Stamatelakis, "Self-organizing closed path configuration of restoration capacity in broadband mesh transport networks", *CCBR '98*, June 1998, 12 pages
  
  - \_\_\_\_\_ C6 R. Kawamura, K. Sato, I. Tokizawa, "Self-healing ATM networks based on virtual path concept", *IEEE Journal on Selected Areas in Communication*, Vol. 12, no. 1, Jan. 1994, pp. 120-127
  
  - \_\_\_\_\_ C7 R.R. Iraschko, "Path Resorable Networks", PhD Thesis, Edmonton, Alberta, 1996, pp. 56-85
  
  - \_\_\_\_\_ C8 W.D. Grover, D. Stamatelakis, "Cycle-oriented distribution preconfiguration: Ring-like speed with mesh-like capacity for self-planning network restoration", *ICC '98*, June 1998, 7 pages
  
  - \_\_\_\_\_ C9 D. Stamatelakis, "Theory and algorithms for preconfiguration of spare capacity in mesh restorable networks", M.Sc. Thesis, 1997
  
  - \_\_\_\_\_ C10 T. Miyao, H. Saito, "Optimal design and evaluation of survivable WDM transport networks", *IEEE Journal on Selected Areas in Communications*, Vol. 16, No. 7, Sept. 1998, pp. 1190-1998
  
  - \_\_\_\_\_ C11 R.R. Iraschko, M.H. MacGregor, W.D. Grover, "Optimal capacity placement for path restoration in STM or ATM mesh-survivable networks", *IEEE/ACM Trans. On Networking*, Vol. 6, No. 3, June 1998, pp. 325-336
  
  - \_\_\_\_\_ C12 W.D. Grover, R.R. Iraschko, Y. Zheng, "Comparative methods and issues in design of mesh-restorable STM and ATM networks", *Telecommunication Network Planning*, pp. 169-200, editors: B. Sanso and P. Soriano, Kluwer Academic Publishers, 1999
  
  - \_\_\_\_\_ C13 "Protection cycles in mesh WDM networks", *IEEE Journal on Selected Areas in Communications*, Vol. 18, No. 10, Oct. 2000, pp. 1924-1936
  
  - \_\_\_\_\_ C14 W. Grover, J. Doucette, M. Clouqueur, D. Leung, "New options and insights for survivable transport networks", *IEEE Communications Magazine*, vol. 40, no. 1, pp. 34-41, Jan. 2002
  
  - \_\_\_\_\_ C15 Y. Xiong, L.G. Mason, "Restoration strategies and spare capacity requirements in self-healing ATM networks", *IEEE/ACM Transactions on Networking*, vol. 7, no. 1, Feb. 1999, pp. 98-110

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\_\_\_\_\_ C16 W.Grover, D. Stamatelakis, "Bridging the ring-mesh dichotomy with *p*-cycles", *IEEE/VDE DRCN*  
2000, Munich, Germany, pp. 92-104, April 2000

Examiner: \_\_\_\_\_

Date Considered:

[Examiner: Initial if reference considered, whether or not citation is in conformance with M.P.E.P; draw line through citation is not in conformance and not considered. Include copy of this form with next communication to applicant]